This Page Is Inserted by IFW Operations
and is not a part of the Official Record

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

IMAGES ARE BEST AVAILABLE COPY.

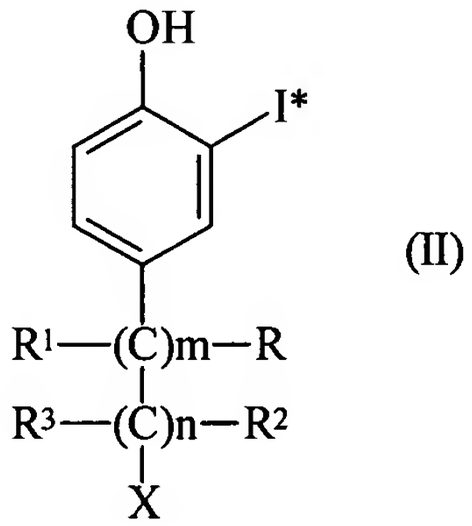
As rescanning documents *will not* correct images, please do not report the images to the Image Problem Mailbox.

Amendment to the Claims:

Please enter the amendments shown on the pages submitted herewith. As amended, Claims 1 and 4-17 are pending. Claims 2 and 3 are cancelled.

Listing of Claims:

1. (Currently amended) A pharmaceutical formulation comprising as an active ingredient a radioiodinated compound of the formula



(II)

wherein: m and n are independently 0, 1, 2 or 3, X is a ~~group that is negatively or positively charged at physiological pH~~sulfonate, R, R^1, R^2 and R^3 are independently hydrogen, C_1-C_4 alkyl, or a carboxyl group, and I* is ^{123}I, ^{131}I or ^{125}I, and its pharmaceutically-acceptable salts, with a pharmaceutically-acceptable carrier, having less than about 15% of unbound iodine present.

2. (Canceled)

3. (Canceled)

4. (Original)The formulation of Claim 1 wherein the formula groups m and n are 0, R, R^1, R^2, and $R^3$are hydrogen, and X is a sulfonate, as its pharmaceutically-acceptable salt.

5. (Original)The formulation of Claim 4 which has as its active ingredient a compound that is sodium 3-iodo-4-hydroxybenzenesulfonate.

6. (Original)The formulation of Claim 1 wherein the formula groups m and n are both 1, R, R^1 and R^3 are hydrogen, R^2 is a carboxyl group, and X is an amine as its pharmaceutically-acceptable salt.

7. (Original)The formulation of Claim 6 which has as its active ingredient a compound that is iodo-tyrosine as the chloride salt.

8. (Original)The formulation of Claim 1 wherein the formula groups m and n are both 1, R, R^1, R^2 and R^3 are hydrogen, and X is an amine as its pharmaceutically-acceptable salt.

9. (Original)The formulation of Claim 8 which has as its active ingredient a compound that is iodo-tyramine as the chloride salt.

10. (Original)The formulation of Claim 1 where the formula term I* is ^{125}I.

11. (Original)The formulation of Claim 1 wherein the formulation has as its pharmaceutically-acceptable carrier water that is buffered to physiological pH.

12. (Original)The formulation of Claim 11 wherein the buffer is HEPES and the pH is from 6 to 8.

13. (Original)The formulation of Claim 11 or 12 wherein a radiolytic protectant is present.

14. (Original)The formulation of Claim 13 wherein the radiolytic protectant is one or more of benzyl alcohol, ascorbic acid, gentisic acid, cysteine, butylated

hydroxytoluene (BHT), citric acid, human serum albumin (HSA), glycerol, cysteamine, sulfarem, glutathione, tryptophan, and iodoacetamide.

15. (Original)The formulation of Claim 14 wherein the radiolytic protectant is the sodium salt of ascorbic acid.

16. (Original)The formulation of Claim 5 wherein the iodo atom is ^{125}I, and having as pharmaceutically-acceptable carriers HEPES and acetate buffers, with a radiolytic protectant of ascorbic acid.

17. (Original)The formulation of Claim 1 wherein less than 10% of unbound iodine is present in the formulation.